



Atty. Dkt. No. 040849-0192

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thomas A. EARLY et al.
Title: COMPONENT ANALYSIS OF MIXTURES BY
NECULEAR MAGNETIC RESONANCE
Appl. No.: 10/065,163
Filing Date: 09/23/2002
Examiner: ~~Unassigned~~ *Sukh*
Art Unit: 1743

SAD
#2
9-16-02

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date 12/16/02

By Lee Rado Reg No 43445

FOLEY & LARDNER
Customer Number: 22428



22428

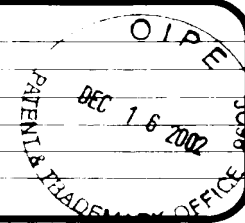
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Telephone: (202) 672-5490
Facsimile: (202) 672-5399

for Michael D. Kaminski
Attorney for Applicant
Registration No. 32,904

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 16, 2002 (use as many sheets as necessary)				Complete if Known Application Number: 10/065,163 Filing Date: 09/23/2002 First Named Inventor: Thomas Alan EARLY Group Art Unit: 1743 Examiner Name: Unassigned Attorney Docket Number: 040849-0192	
Sheet	1	of	2		



U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴	Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A1	Werner Storek; "Quantitative NMR-Spek Troskopische Simultananalyse von Mehrkomponentengemischen Unter Einsatz Eines Rechners IM On-Line-Betrieb"; Talanta, Vol. 23, pp. 649-654 (1975)	
	A2	C. Chon et al.; "Analyse Quantitative Des Principaux Constituants Du Vin Par Rmn Du Carbone-13: Optimisation De La Methode, International des Sciences de la Vigne et du Vin, (1996), pp. 73-83	
	A3	Pascale Bradesi et al., "L'analyse des melanges complexes par RMN du Carbone-13 - Partie 2", Canadian J. Appl. Spectroscopy, Vol. 41, No. 2, (1996)	
	A4	H.N. Cheng et al., "Factor analysis in the NMR characterization of multicomponent polymers", Polymer Bulletin 38, (1997), pp. 555-562	
	A5	R. Stoyanova et al., "NMR spectral quantitation by principal component analysis", NMR in Biomedicine, (2001), pp. 271-277	
	A6	Minoru Terano et al., "NMR analysis of ethylene-propylene copolymer for the study of active sites on a primary type of MgC1 ₂ -supported catalyst", Makromol. Chem., Rapid Commun., (1990), pp. 439-442	
	A7	Minoru Terano et al., "Ethylene-propylene copolymerization for the study of a primary-type of MgC1 ₂ -supported high yield catalyst", Toho Titanium Co., Ltd., (1990)	
	A8	Osamu Yamamoto et al., "Computer-Aided Quantitative Analysis by Proton Magnetic Resonance for Compounds with Complex Spectra", Ana. Chem. 47 (4) (1975).	

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*EXAMINER Initials: Reference is made to whether the citation is in compliance with MPEP 6.02. Drawings through citation to the cited material and not considered. Include copy of this form with next communication to applicant.

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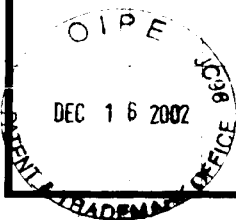
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/065,163
				Filing Date	09/23/2002
Date Submitted: December 16, 2002 (use as many sheets as necessary)				First Named Inventor	Thomas Alan EARLY
				Group Art Unit	1743
Sheet 2 of 2				Examiner Name	Unassigned
				Attorney Docket Number	040849-0192

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A9	Zhikang Xu et al., "Ethylene/Propene copolymerization with a TiCl ₃ catalyst: Effects of prepolymerization", Marromol. Chem. Rapid. Commun. (11), (1990), pp. 79-81	
	A10	Pascale Bradesi et al., "L'analyse des melanges complexes par RMN du Carbone-13 – Partie 1", Canadian J. Appl. Spectroscopy, 41(1) (1996) 15.	



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